

Title (en)
METHOD OF CONTROLLING A LASER CUTTING PROCESS IN A HIGH ENERGY ZONE WITH INTERRUPTION OF THE CUTTING PROCESS ;
CORRESPONDING DEVICE AND COMPUTER PROGRAM

Title (de)
VERFAHREN ZUR KONTROLLE VON LASERSCHNEIDVORGÄNGEN IM HOCHLEISTUNGSBEREICH MIT
SCHNEIDVORGANGUNTERBRECHUNG ENTSPRECHENDE VORRICHTUNG UND COMPUTERPROGRAMMPRODUKT

Title (fr)
METHODE DE CONTROLE D'UN PROCEDE DE DECOUPE AU LASER DE HAUTE ENERGIE AVEC INTERRUPTION DU PROCEDE DE
DECOUPAGE ; DISPOSITIF ET PROGRAMME D'ORDINATEUR CORRESPONDANTS

Publication
EP 3412399 B1 20210428 (DE)

Application
EP 18183693 A 20151023

Priority
• EP 18183693 A 20151023
• EP 15191289 A 20151023

Abstract (en)
[origin: US2017113300A1] A method and a device for monitoring laser cutting processes in the high-power range above 1 kW mean output envisage automatic quality control after interruption and/or completion of a cutting process carried out with predetermined cutting parameters. The cutting process is interrupted after a first partial processing step, whereupon a partial section (K1 . . . KX) of the processing path is scanned. This preferably takes place at a higher speed than that for the first partial processing procedure and preferably close to or on the same processing path. On the basis of the scan result at least one quality feature of the processing result is automatically determined and compared with predefined quality specifications. Depending on the result of the comparison a fault message can then be issued, the processing interrupted, reworking of a defect point carried out, at least one cutting parameter adjusted and the cutting process continued with the changed set of cutting parameters.

IPC 8 full level
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B23K 26/032 (2013.01 - EP US); **B23K 26/0626** (2013.01 - US); **B23K 26/38** (2013.01 - EP US); **B23K 31/00** (2013.01 - EP US);
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DOCDB simple family (publication)
EP 3159093 A1 20170426; **EP 3159093 B1 20180718**; EP 3412399 A1 20181212; EP 3412399 B1 20210428; PL 3159093 T3 20181231;
PL 3412399 T3 20211025; US 10675709 B2 20200609; US 11224938 B2 20220118; US 2017113300 A1 20170427;
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